

## INTERNATIONAL SEARCH REPORT

 International application No.  
 PCT/KR2005/001159
**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 A63C 17/01**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 17/00,17/01,17/01.17/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP: Classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/092831A1 (DECOLEE CO.,LTD) 13 NOVEMBER 2003 Page 4-7 and Fig 1-5	1-4,7,8
Y		5,6
X	US 4076267 A (Willis Leonard Lipscomb) 20 SEPTEMBER 1978 Columb 2 line 58-Columb 3 line 2 fig 5	1-4,7,8
Y		5,6
X	US 5540455 A (Lile R.Chambers) 30 JULY 1996 Entire document	1,2,8
Y	KR 20-337494 Y1( JUNG JAE HONG) 30 DECEMBER 2003 Fig 1a-2a	5,6,
X	JP 2001-29663 A (TAKAHASHI KOJI) 6 FEBRUARY 2001 Entire document	1,3,8

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

08 AUGUST 2005 (08.08.2005)

Date of mailing of the international search report

**10 AUGUST 2005 (10.08.2005)**

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2005/001159

Patent document cited in search report	Publication date	Patent family members)	Publication date
WO 03/092831 A1	13.11.2003	EP 1511541 US 2004262872A1 KR 10-394848B1	2005.3.9 2004.12.30 2003.8.14
US 4076267A	28.02.1978	NONE	
US 5540455A	30.07.1996	NONE	
KR 20-337494(Y1)	30.12.2003	NONE	
JP 2001-29663A	06.02.2001	NONE	